

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Natural Sto	ne Materials an	d Conservati	ion Method	S			
Course Code MRP123 Couse Level Short Cycle (Associate's Degree)				Degree)				
ECTS Credit 3	Workload	73 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Cou	rse To give info	ormation about t	he constructi	ion and rep	air of stone mat	naterials used in architectural works.		
Course Content	processing	and workmansh	nip; <mark>quarr</mark> y ar	nd transpoi	nes species, sto t, masonry, tool	S		
	stones; phy and bioderi stones and	nework and trac vsical deteriorati oration factors, detection of con nethods and rep	on factors, cl methods of r nservation sit	hemical de ecognition	terioration factor of deterioration			
Work Placement	stones; phy and bioderi stones and	vsical deteriorati oration factors, detection of cor	on factors, cl methods of r nservation sit	hemical de ecognition	terioration factor of deterioration			
Work Placement Planned Learning Act	stones; phy and bioderi stones and inventory m	vsical deteriorati oration factors, detection of con nethods and rep	on factors, cl methods of r nservation sit ort.	hemical de recognition tuation, do n (Presenta	terioration factor of deterioration cumentation,	rs	sussion, Case Stud	y,

### Assessment Methods and Criteria

Method		Quantity	Percentage (%)	
Midterm Examination		1	40	
Final Examination		1	70	

## **Recommended or Required Reading**

1	Mac Kenzie, W.S., A Color Atlas of Rocks and Minerals in Thin Section, New York 2007.
2	Famdon, J., The Practical Encyclopedia of Rocks and Minerals, London 2006.
3	Lazzrini, L., Pieper, R., The Deterioration and Conservation of Stone:Notes from the International Venetian Courses on Stone Restoration
4	Shadmon, A., Stone: An Introduction, Intermediate Technology Publications, London 1996
5	Lazzarini, L., Tabasso, M.L., II Restauro della Pietra, Padova 1992. Torraca, G., Porous Building Materials, ICCROM, Roma 1981.

Week	Weekly Detailed Cours	se Contents
1	Theoretical	Formation of Rocks and Rock Types
2	Theoretical	Igneous (Volcanic) Rocks
3	Theoretical	Sedimentary Rocks
4	Theoretical	Metamorphic (Transfiguration) Rocks
5	Theoretical	Ancient Stone Work
6	Theoretical	Stonework Hand Tools
7	Theoretical	Stone Removal Methods
8	Theoretical	Midterm exam
9	Theoretical	Distortion in Stone Works
10	Theoretical	Physical Impairments
11	Theoretical	Chemical Disorders
12	Theoretical	Chemical Disorders
13	Theoretical	Biological Disruptions
14	Theoretical	Due Diligence and Documentation in Stone Works
15	Theoretical	Due Diligence and Documentation in Stone Works

# **Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	0	2	28	
Assignment	10	2	0	20	



Term Project	1		2	0	2		
Midterm Examination	1		11	1	12		
Final Examination	1		10	1	11		
Total Workload (Hours)							
[Total Workload (Hours) / 25*] = ECTS							
*25 hour workload is accepted as 1 ECTS							

#### Learning Outcomes

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	1	Information is given about the solar system and the formation of the earth, the structure of the earth, convection flow, crust motions, rock types and the basic minerals that form rocks.
	2	General information about igneous rocks, basic minerals in igneous rocks, types of igneous rocks and their general characteristics are given.
	3	Information is given on the basic properties, sedimentary minerals, types and properties of sedimentary rocks.
	4	Information is given on the basic properties of metamorphic (metamorphic) rocks, their main minerals, types and properties.
	5	In Antiquity, information is given about the methods of removing the stones from the quarry and moving to the construction site or workshop.
	6	Information about hand tools used in antiquity stonework, usage patterns and traces left on the stone are given. patterns pattern
ĺ	7	General information about Ancient Architecture and Modern architectural layouts is given.

## Programme Outcomes (Architectural Restoration)

1	The restoration, structural information, the matters required by the construction technology and infrastructure areas have sufficient theoretical and practical knowledge in this field and win.
2	Using the basic level of knowledge and skills acquired in the field, interpret and evaluate data, identify problems, analyze, would have the ability to develop solutions based on evidence.
3	Restoration terminology, values that protect the basic principles for the identification and protection purposes, the protection will have information about the evolution of understanding and methods.
4	The causes of deterioration tile works, to be implemented between the restoration and conservation methods and have the basic information about the techniques.
5	modern techniques required for applications related to the field, tools, and you can select and use information technology effectively.
6	Drawing to gain the perspective necessary, plans, sections, elevations, have knowledge about perspective drawings and descriptions, at various scales, section, learn how to view details and to review the project.
7	The concept of traditional crafts, periods, techniques, materials, and have knowledge about the historical development.
8	When faced with unforeseen situations in the field of application to produce solutions, won the individual to take responsibility in the team or work ability.
9	By using computer-related applications and commands used in the project drawings, studies measuring the output settings and make applications work on the plan.
10	Labor law and occupational safety, environmental protection and quality have the consciousness.
11	Archaeological research methods, have knowledge about excavation methods and types. drawing museum in presentation material examination of the legislation in the application of archeology and artifacts within the scope of the documentation and cataloging acquire knowledge and skills.
12	Survey, restoration, knows the basic principles and methods in restitution and conservation. The history of restoration and will have the necessary information about the current restoration techniques applied in the world.
13	building materials that are used in historical buildings, construction techniques, have a general knowledge about the causes of deterioration and preservation techniques.
14	Wood will have a basic knowledge of the causes of deterioration and take necessary protection methods.
15	on Traditional Turkish House Architecture; The origin of Turkish houses, regional specialties, plan types, building systems, construction materials, will have information about the features and facade decorations.
16	have knowledge about perspective drawings and descriptions, at various scales, section, learn how to view details and to review the project.
17	control services in buildings, unit price and description analysis, excavation, and will have information about transportation and accounting affairs.
18	He gains the ability to conduct research.
19	The creation of an architectural project and all the architectural layout of the project and learn the making of three-dimensional computer drawings of the visual.
20	They have to respect the historical value of professional ethics.

## Contribution of Learning Outcomes to Programme Outcomes 1: Very Low, 2: Low, 3: Medium, 4: High, 5: Very High

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	L1	L2	L3	L4	L5	L6	L7	
P1	5	4	4	4	5	4	4	



Course	Information	Form

P2	2	1					
P3	4	5	5	5	2	5	3
P4	1						
P5	4	3	3	4	4	5	4
P6	1						
P7	3					4	
P8	4	3	2	3	4	4	3
P9	1						
P10	1						
P11	2		1		1	4	3
P12	1						
P13	4	5	4	5	5	5	5
P14	1						
P15	1						
P16	1						
P17	1						
P18	1						
P20	5	4	5	5	5	5	4

